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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,597	07/18/2003	Donald David Karlov	MSFT-1794/303770.1	4306
41505	7590	08/11/2005	EXAMINER	
WOODCOCK WASHBURN LLP ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103			MONESTIME, MACKLY	
			ART UNIT	PAPER NUMBER
			2671	

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/622,597	KARLOV, DONALD DAVID	
	<b>Examiner</b>	<b>Art Unit</b>	
	Mackly Monestime	2671	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 09 May 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Response to Amendment***

1. The amendment received on May 9, 2005 has entered and carefully considered, claim 8 is canceled and claims 1-7 and 9-29 are still pending in the application.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7, and 9-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoppe et al (US Pub. No. 2002/0196256) in view of Jeddeloh et al (US Patent No. 6,252,612).
4. Hoppe et al were cited in the last office action.
5. As per claims 1, 13-14, 21 and 28 Hoppe et al substantially disclosed the invention as claimed, including a method for rendering graphics on a display device for a computer system having a central processing unit, (Fig. 2, Item No. 202) system random access memory, and a graphics card (Fig. 2, Item No. 204 and 206), said graphics card comprising a graphical processing unit, video random access memory, and a frame buffer (Fig. 2, GPU; 208 video memory; and 204), said method comprising:

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rendering a graphic in the system random access memory with the central processing unit (Fig. 2, Item No. 202, 204).

Hoppe et al did not explicitly disclose copying said graphic from the system random access memory to the frame buffer, but, Hoppe et al disclose the use of a rendering module that places the rendered images into the frame buffer (Fig. 2, Items No. 204 and 208; page 3, paragraph 0040, lines 1-5). However, Jeddeloh et al disclosed an accelerated graphics port for multiple memory controller computer system in which the graphical data are copied from the system memory into the frame buffer (col. 4, lines 35-40). It would have obvious to one of ordinary skill in the art at the time the invention was made to combine the cited references because doing so would enhance system's flexibility by allowing graphical data to be copied or moved from one memory component to another memory component.

6. As per claims 2, 23 and 29, Hoppe et al disclosed that graphic comprises a complex graphic element (page 2, paragraph 0020, lines 1-6; page 5, paragraph 78, paragraph 80, lines 1-6).

7. As per claims 3-4, 15-16 and 24, Hoppe et al disclosed that graphic comprises a sub-pixel manipulation and anti-aliasing (page 1, paragraph 0006, lines 1-4).

8. As per claims 5-7, 17-19, Hoppe et al disclosed that graphic comprises shading, texturing and alpha-blending (page 4, paragraph 0060).

9. As per claim 20, Hoppe et al disclosed that said portrait oriented graphic is displayed on the display device in a secondary portrait mode (page 5, paragraph 0078).

10. As per claim 9 and 21, Hoppe et al disclosed that complex graphic comprises a compositing of overlays (page 3, paragraph 0042).

11. As per claims 10 and 25, Hoppe et al disclosed wherein said computer system further comprises an accelerated graphics port (ACP) between the central processing unit, the system random access memory, and the graphics card (page 3, paragraph 0035, lines 1-15).

12. As per claims 11-12 and 26-27, Hoppe et al disclosed that the graphics card comprises a graphics accelerator, graphics coprocessor (Fig. 2, Item No. 206).

### ***Response to Arguments***

13. Applicant's arguments with respect to claims 1-7 and 9- have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mackly Monestime whose telephone number is (571) 272-7786. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan, can be reached on (571) 272-7782.

**Any response to this action should be mailed to:**

Commissioner of Patent and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(571) 272-8300 (for Technology Center 2600 only)**

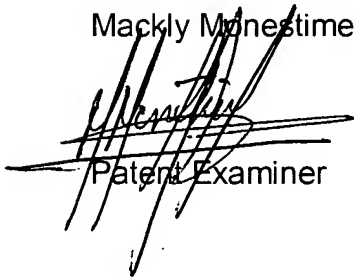
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

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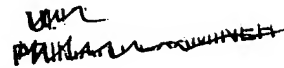
- a. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Mackly Monestime

A handwritten signature in black ink, appearing to read 'Mackly Monestime', is written over the printed name and title.

Patent Examiner

August 5, 2005

A handwritten signature in black ink, appearing to read 'Ulka J. Chauhan', is written above the printed name and title.A handwritten signature in black ink, appearing to read 'Ulka J. Chauhan', is written above the printed name and title.

ULKA J. CHAUHAN  
PRIMARY EXAMINER